



PATENT
Docket No. 1640-006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
James C. Weatherall and Joseph A. Gatto)	Group Art Unit: 2859
)	
Entitled: "METHOD AND APPARATUS FOR)	Examiner: Shrivastav,
OBTAINING SPATIAL INFORMATION AND)	Brij B.
MEASURING THE DIELECTRIC CONSTANT OF)	
AN OBJECT")	
)	
Serial No.: 10/681,032)	
)	
Filed: October 7, 2003)	
)	
)	
)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants hereby submit this Information Disclosure Statement under 37 C.F.R. §§ 1.56 to bring to the attention of the Examiner the documents listed on the attached Form 1449/PTO. It is being filed after the occurrence of events identified in § 1.97(c), *i.e.*, the issuance of an *Ex parte Quayle* Action, but before the payment of the issue fee. Copies of the listed documents listed on the attached Form 1449/PTO are attached.

This submission does not represent that a search has been made or that no better art exists. It does not constitute an admission that any of the listed documents is material to this application or constitutes "prior art." Applicants

reserve the right to challenge or rebut any characterization of any of the references a "prior art" as to this application, and the right to present to the Office evidence, law and/or argument regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

It is Applicants' understanding and belief that no fees are due in connection with the filing of this Information Disclosure Statement. If any such fees are due, please charge them our Deposit Account 501324.

Dated: November ¹¹~~10~~, 2006 ^{STS}

Respectfully submitted,



Stephen T. Sullivan
Reg. No. 32,444

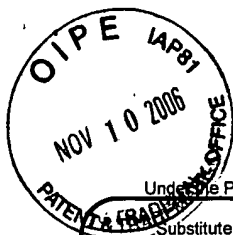
CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 450226379 US

Date of Deposit: Nov. ¹¹~~10~~, 2006 ^{STS}

I hereby certify that this Information Disclosure Statement (including the attached Form 1449/PTO and copies of listed references) is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





PTO/SB/08A (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3**Complete if Known**

Application Number	10/681,032
Filing Date	Oct. 7, 2003
First Named Inventor	James C. Weatherall
Art Unit	2859
Examiner Name	Shrivastav, Brij B.
Attorney Docket Number	1640-006

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,589,177	06/29/1971	Merlo	
		US- 3,722,288	03/27/1973	Weber	
		US- 4,087,798	05/02/1978	Thorn et al.	
		US- 4,234,844	11/18/1980	Yukl	
		US- 4,263,511	04/21/1981	Hirschberg	
		US- 4,433,286	02/21/1984	Capots et al.	
		US- 4,493,039	01/08/1985	Gregory	
		US- 4,651,100	03/17/1987	Janes	
		US- 4,652,829	03/24/1987	Safinya	
		US- 4,740,753	04/26/1988	Glover et al.	
		US- 4,881,025	11/14/1989	Gregory	
		US- 4,912,982	04/03/1990	Yukl	
		US- 5,124,662	06/23/1992	Downing et al.	
		US- 5,260,665	11/09/1993	Goldberg et al.	
		US- 5,266,913	11/30/1993	Chapman	
		US- 5,296,810	03/22/1994	Morich	
		US- 5,334,941	08/02/1994	King	
		US- 5,341,100	08/23/1994	Taylor	
		US- 5,648,038	07/15/1997	Fathi et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **2** of **3****Complete if Known**

Application Number	10/681,032
Filing Date	Oct. 7, 2003
First Named Inventor	James C. Weatherall
Art Unit	2859
Examiner Name	Shrivastav, Brij B.
Attorney Docket Number	1640-006

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5,689,189	11/18/1997	Morich et al.	
		US- 5,757,187	05/26/1998	Wollin	
		US- 6,049,207	04/11/2000	Petropoulos	
		US- 6,081,118	06/27/2000	Kaplan	
		US- 6,194,898 B1	02/27/2001	Magnuson et al.	
		US- 6,255,816 B1	07/03/2001	Robitaille	
		US- 6,255,824 B1	07/03/2001	Barbara	
		US- 6,375,875 B1	04/23/2002	Paulauskas et al.	
		US- 2002/0005725 A1	01/17/2002	Scott	
		US- 2002/0149377 A1	10/17/2002	Hefti et al.	
		US- 4,370,611	01/25/1983	Gregory et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

3

of

3

Complete if Known

Application Number

10/681,032

Filing Date

Oct. 7, 2003

First Named Inventor

James C. Weatherall

Art Unit

2859

Examiner Name

Shrivastav, Bij B.

Attorney Docket Number

1640-006

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		NORBERT GENG AND LAWRENCE CARIN, "On the Low Frequency Natural Response of Conducting and Permeable Targets," <i>IEEE Transactions on Geoscience and Remote Sensing</i> , Vol. 37, No. 1, Jan. 1999, pp. 347-359	
		Brett D. Culbertson et al., "Sensitivity and Optimization of a High-Q Surface Acoustic Wave Sensor Transducer," <i>IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control</i> , Vol. 45, No. 5, Sept. 1998, pp. 1303-1313	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.